APPENDIX 14

Baker Hughes/Inteq Well Recap Report, Sidewinder #1-H

BAKER HUGHES

INTEQ

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Denver, Colorado 80202
Tel 303-534-3223
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January 10, 2000

Mr. Dan Lockwood
Union Pacific Resources
777 Main
MS 33-3605-1
Fort Worth, Texas 76101

Re: Sidewinder Unit #1-H
Section 2, 19 North – 97 West
Sweetwater County, Wyoming
TD = 16,876' (15,554' TVD) Frontier Test

Dear Mr. Lockwood:

Baker Hughes *INTEQ* – Drilling Fluids wants you to know that we are pleased to have been able to provide you with the finest mud materials and the most accomplished engineering service on the Sidewinder Unit #1-H.

The enclosed mud recap data was compiled by Brad Satterlee and Craig Adels, using our COMPUDRIL 2000 software package. The single page "Well Recap" was based on the reports generated by this engineering team.

We want to thank you for the opportunity to be part of this Union Pacific Resources project, and gratefully appreciate the role that you have played and the support you have given our company.

As always, please call on us whenever we can be of assistance. We welcome the chance to be of service to you and Union Pacific Resources.

Sincerely;

Baker Hughes *INTEQ* – Drilling Fluids

James W. Kleinsorge
Northwestern US Operations Manager

rf/B990603-12190

Native with Sweeps: 1297' to 8300'

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- Recommendations:
  - Make more efficient use of sweeps.
    - Increase sweep volume.
    - Run sweeps more often.
  - Lightly Mud-up after drilling cement.

- Actions:
  - Recommended sweeping hole once per tour with 200 bbls of 100+ viscosity. This action aided hole cleaning and allowed the water drilling to be extended which in turn aided ROP.
  - Mud-up point was dictated by hole conditions. No light mud-up after drilling cement was warranted.

MILGEL/Chemical: 8300' to 12,000'

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- Recommendations:
  - Improve hole cleaning; maintain LSR @ 3-4 #/100 ft^2.
  - Maintain 0.25 ppb NEW-DRILL to improve wellbore stability.
  - Control seepage with LCM sweeps.
  - Reduce bit balling and increase ROP.

- Actions:
  - Hole cleaning was not an issue. Yield point and LSR was sufficient to maintain good carrying capacity.
  - Hole stability was good so NEW-DRILL was not necessary.
  - Seepage losses were minor.
  - Bit balling was not a problem.

Weighted Gel/Chem: 12,000' to 15,541'

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- Recommendations:
  - Increase mud weight to control formation "collapse".
  - Improve chemical stability with "inhibitors" and lower API and HTHP values.
  - Cuttings bed "slump" control with contrasting low-vis/hi-vis sweeps.
  - Increase YP:PV ratio to improve hole cleaning and suspension.
  - Use MIL-LUBE to reduce friction.
  - Increase frequency of pipe rotation and reciprocation to disturb "cuttings bed" and enhance transport.

Weighted Gel/Chem: 12,000' to 15,541'

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- Actions:
  - Formation collapse was not experienced. Mud weight was increased to control BGG.
  - The addition of 5% diesel may have enhanced stability. API & HTHP values were reduced to drill the "curve".
  - Hole conditions did not dictate the need for contrasting sweeps.
  - YP:PV ratio actually decreased. The flow profile was transitional to turbulent instead of laminar to transitional.
  - As small amount of MIL-LUBE along with diesel and "beads" was used to slick-up the hole.

Weighted Gel/Chem: 15,541' to 16,876'

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- Recommendations:
  - Maintain constant mud weight to reduce mechanical failure.
  - Support vertical stress with sufficient mud weight to prevent roof collapse.
  - Improve hole cleaning to prevent tight hole and pack-off.
  - Use MIL-LUBE to reduce torque and drag.
  - Increase LSR to 4-6 #/100 ft^2.
- Actions:
  - Mud weight was varied to:
    - Control BGG
    - Prevent lost circulation
    - Control mechanical failure

Weighted Gel/Chem: 15,541' to 16,876'

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- Raising the mud weight to a level that may have afforded control would have resulted in increased lost circulation. Maximum mud weight to avoid losses was 15.2 ppg.
- Since mechanical failure did occur, some pack-off was reported. Contrasting sweeps proved to be of limited value due to the low "event" time of the sweep volume.
- Torque and drag were not problems as result of the diesel that was added.
- Fewer hole problems were experienced when the LSR was maintained at 4 to 5 #/100 ft^2 or higher.

Other Positive Actions

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- The use of a "native" fluid was extended beyond that which was recommended with no adverse effects. Mud-up occurred due to deteriorating hole conditions
- Shale stabilization was not a problem and the "gel-based" mud performed very well.
  - PHPA polymer was not used and was not missed.
  - Other inhibitors were thought to be necessary, but hole conditions proved otherwise.
- Polymeric viscosifiers were used lightly employed. Usage increased in the horizontal hole during the hole failure at 16,308'.
  - The low usage reduced the need for biocides. Biocide cost was cut by 57%.

Other Positive Actions

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  - Hole conditions in the vertical and "curve" did not suffer due to limit use of polymeric viscosifers.
  - While drilling Sidetrack #2, the use of XANPLEX D elevated the LSR and hole cleaning problems were not reported.
- Control of the HTHP fluid loss value and filter cake quality improved overall hole conditions.
  - Control was accomplished with LIGCO and MIL-PAC.
- Differential Pressure Sticking did occur. The quick spotting of an unweighted BLACK MAGIC SFT soak allowed the pipe to come free in 2 hrs.
  - BLACK MAGIC SFT was on location for use if needed. The quicker a soak can be spotted the more likely the pipe will come free.

Other Positive Actions

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- Lowering the sand content to 1/8th or less seemed to improve tool life.
  - Use solids equipment to maintain a very sand content from KOP to TD.
- Continuity of the engineering team from spud to release.
  - Improved communications.
  - Better team work.
- Use of COMPUDRIL 2000 software advanced data collection and presentation.
  - Will be used from start to finish on the Sage Flat Unit #7-H.
  - Will also employ other engineering and informational software.

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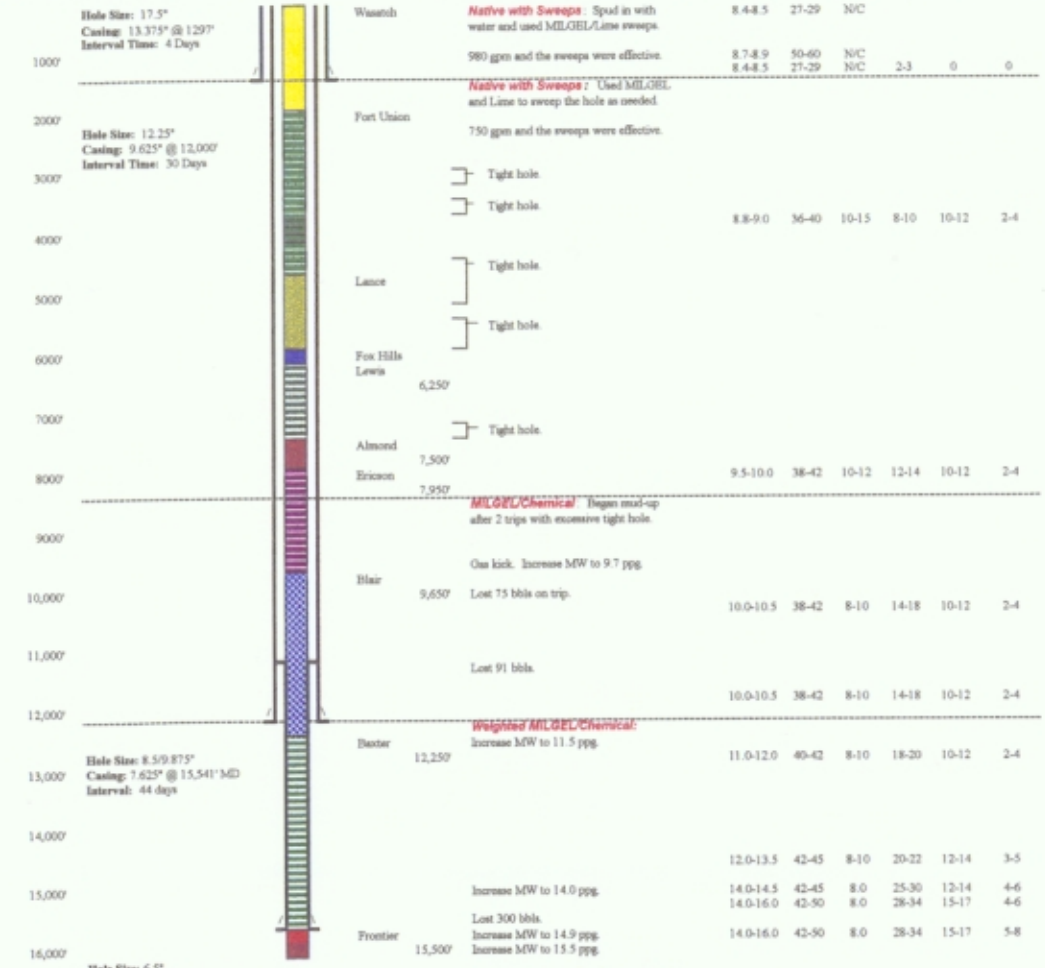
BAKER HUGHES INTEQ — Drilling Fluids

Union Pacific Resources
Sidewinder Unit #1-H
Section 2, 19 North - 97 West
Sweetwater County, Wyoming

Well Recap



Depth	Formation	Drilling Fluid Highlights	Mud Weight	Vis.	Fluid Loss	PV	YP	LSR
	Wasatch	***Native with Sweeps:*** Spud in with water and used MILGEL/Lime sweeps.	8.4-8.5	27-29	N/C			
		980 gpm and the sweeps were effective.	8.7-8.9	50-60	N/C			
			8.4-8.5	27-29	N/C	2-3	0	0
	Fort Union	***Native with Sweeps:*** Used MILGEL and Lime to sweep the hole as needed.						
		750 gpm and the sweeps were effective.						
		Tight hole.						
		Tight hole.						
			8.8-9.0	36-40	10-15	8-10	10-12	2-4
	Lance	Tight hole.						
		Tight hole.						
	Fox Hills							
	Lewis	6,250'						
		Tight hole.						
	Almond	7,500'						
	Ericson	7,950'	9.5-10.0	38-42	10-12	12-14	10-12	2-4
		MILGEL/Chemical: Began mud-up after 2 trips with excessive tight hole.						
		Gas kick. Increase MW to 9.7 ppg.						
	Blair	9,650' Lost 75 bbls on trip.	10.0-10.5	38-42	8-10	14-18	10-12	2-4
		Lost 91 bbls.	10.0-10.5	38-42	8-10	14-18	10-12	2-4
		Weighted MILGEL/Chemical:						
	Baxter	12,250' Increase MW to 11.5 ppg.	11.0-12.0	40-42	8-10	18-20	10-12	2-4
			12.0-13.5	42-45	8-10	20-22	12-14	3-5
		Increase MW to 14.0 ppg.	14.0-14.5	42-45	8.0	25-30	12-14	4-6
			14.0-16.0	42-50	8.0	28-34	15-17	4-6
		Lost 300 bbls. Increase MW to 14.9 ppg.	14.0-16.0	42-50	8.0	28-34	15-17	5-8
	Frontier	15,500' Increase MW to 15.5 ppg.						
		PB to 14,900'. Reduce MW to 14.4 ppg. Drill from KOP to 15,541'. Added 5% diesel. Spot 25 ppb beads through curve and ran 7.625" liner; 68°.						

Depth MD	Highlights - Orginal Hole	Highlights - Sidetrack #1	Highlights - Sidetrack #2
15,000'	Add 5% diesel.		
15,100'			
15,200'			
15,300'			
15,400'	Increasing BHT.		
15,500'			
15,600'	7.625" casing @ 15,541'	Tried to cut trough at 15,660'. Move up to 15,600' and cut trough.	Begin sidetrack #2 at 15,560'. Inc MW to 15.5 ppg. Add XANPLEX D and inc 3 rpm=7.
15,700'	Increase MW to 14.5 ppg. Cut out additions of XANPLEX D.		
15,800'			
15,900'	Back ream on connections. TIH & ream from 15,711 to 15,847' Lost 200 bbls. Lower MW to 14.1 ppg.	Ream 2.5 hrs TB. 3 rpm=1.	– Lower sand content to less than 1/8. Add LIGCO to improve cake quality.
16,000'		Core 15,959 to 15,996'	– Lost 300 bbls to fractures (?). Sticky while sliding. Lower MW to 15.2 ppg. At 16,060', shut down to orient tools. Differentially stuck. Spot BM-SFT. Free in 2 hrs. Lower MW to 14.5 ppg. Lower API FL to 8.0 or less and improve HTHP FL and cake. 3 rpm=4.
16,100'	Hole drag. 3 rpm=2.		
16,200'	Drill out of the top of section. Begin sidetrack #1.	TIH. W/Rm 16,050 to 16,143'	
16,300'	TD = 16,107'	Excessive W/Rm. Inc MW from 13.8 to 15.0 ppg. Hole very "sticky". Lost 460 bbls. Tight at 16,308 to 16,240'. Add diesel/MIL-LUBE/beads. Stuck at 16,308'. Pump sweeps. Pressure up. Inc MW to 15.1 ppg. Fish. Recover HWDP. TIH and push motor & bit TB.	TIH after logs and begin W/Rm TB. Seepage losses with 14.5 ppg. Pump sweeps. Short trip. C&C to thin mud for running and cementing 3.5" liner.
16,400'			
16,500'			
16,600'		P/U tools to sidetrack. TIH to 16,035' and "stuck". MW = 15.0 ppg 3 rpm=1. Back-off to 15,241'. Spot BM-SFT. Recover 364' of fish. TOF = 15,605'.	
16,700'			
16,800'		Condition HTHP of mud prior to starting sidetrack #2.	Logged with reported problems.
16,900'			
17,000'		TD = 16,308'	TD = 16,876'

Total Depth: 16,876' MD - 15,554' TVD
Total Drilling Time: 156 Days

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Interval Summary

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Interval Summary

Operator	UNOIN PACIFIC RESOURCES	*Field or Block No.*	SIDEWINDER	*Country*	USA
Well Name and No.	SIDEWINDER 1-H	*Lease Offshore Area*	SWEETWATER		
Contractor	SST	*Legal description*	2-19N-97W		
Rig Name/Number	88	*State*	WYOMING		

INTERVAL START DATE	8/4/99
INTERVAL END DATE	1/6/00
TOTAL DAYS / DRILLING DAYS	156 / 105
MUD TYPE	WTD LSND - NATIVE
START DEPTH	1300 ft
MAXIMUM DEVIATION	deg
END DEPTH	16876 ft
TOTAL VERTICAL DEPTH	ft
MAXIMUM MUD WEIGHT	15.70 ppg
HOLE SIZES	17.5 - 12.25 - 9.875 - 8.5 - 6.5 in
TOTAL FOOTAGE DRILLED	15576.00 ft
FOOTAGE DRILLED PER DAY / DRILLING DAY	99.85 / 148.34 ft
COST PER DAY / DRILLING DAY	2,963.36 / 4,402.70 USA
COST PER ft	29.68 USA
PLANNED INTERVAL COST	300,000.00 USA
TOTAL INTERVAL COSTS	462,283.66 USA
MUD ENGINEERS	MR. BOB EARL , MR. BRAD SATTERLEE , MR. CRAIG ADELS , MR. JERRY HESS

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Material Consumption

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Total Material Consumption

Operator	**UNOIN PACIFIC RESOURCES**	*Field or Block No*	**SIDEWINDER**	*Country*	**USA**
Well Name and No	**SIDEWINDER 1-H**	*Lease Offshore Area*	**SWEETWATER**		
Contractor	**SST**	*Legal description*	**2-19N-97W**		
Rig Name/Number	**88**	*State*	**WYOMING**		

ITEM	QUANTITY	UNIT SIZE	UNIT COST	COST
BLACK MAGIC SFT	150	25 kg bag	69 15	10,372 50
CAUSTIC SODA	117	50 lb bag	16 47	1,926 99
CHEK-LOSS	41	25 lb bag	23 58	966 78
CITRIC ACID	25	50 LB bag	117 98	2,949 50
CY-FLOC	2	50 lb bag	43 81	87 62
DRILL-THIN	103	25 lb sack	63 00	6,489 00
ENGINEERING	154	0 DAY	250 00	38,500 00
Gypsum	60	100 lb bag	7 20	432 00
HYPO-CLORITE	1	55 gal DRUM	505 00	505 00
LD-8	3	5 gal pail	115 20	345 60
LIGCO	115	50 lb bag	9 36	1,076 40
LUBRI BEADS C	96	50 LB BAG	135 70	13,027 20
LUBRI BEADS F	27	50 lb bag	135 70	3,663 90
MIL-BAR	2666 3	1 ton bulk	67 80	180,775 14
MIL-BAR SX	1680	100 lb bag	4 10	6,888 00
MIL-CARB	462	50 lb bag	5 08	2,346 96
MIL-CEDAR FIBER	14	40 lb bag	6 60	92 40
Mil-Lime	118	50 lb bag	4 35	513 30
MIL-LUBE	10	55 gal drum	696 00	6,960 00
MIL-PAC	133	50 lb bag	135 93	18,078 69
MIL-PAC LV	17	50 lb bag	163 50	2,779 50
MILGEL	2095	100 lb bag	2 84	5,949 80
MILMICA COARSE	113	50 LB SACK	10 45	1,180 85
MILMICA FINE	450	50 lb bag	10 45	4,702 50
MISCELLANEOUS	1	1	505 00	505 00
NEW-DRILL	28	5 gal pail	47 58	1,332 24
NEW-DRILL PLUS	3	25 lb bag	90 67	272 01
NEW-VIS	42	50 lb bag	253 87	10,662 54
PAPER	10	40 lb bag	7 70	77 00
RENTAL CHARGES	156	1	134 71	21,015 00
			Total Cost	**344,473 42 USA**

ITEM	QUANTITY	UNIT SIZE	UNIT COST	COST
SAPP	10	50 lb bag	45 42	454 20
Sawdust	170	40 lb bag	5 00	850 00
SHRINK WRAP	134	1 ea	17 00	2,278 00
Sodium Bicarbonate	198	100 lb bag	13 80	2,732 40
TAX	152	1	141 63	21,528 09
TEQ-THIN CF	40	50 lb bag	64 68	2,587 20
TRANSPORTATION	58	1	959 65	55,659 76
X-CIDE 102	93	5 gal pail	161 43	15,012 99
XAN-PLEX D	85	25 lb bag	196 56	16,707 60
			Total Cost	**462,283 66 USA**

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Volume Accounting

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Detailed Volume Accounting by Interval

Operator	**UNOIN PACIFIC RESOURCES**	*Field or Block No*	**SIDEWINDER**	*Country*	**USA**
Well Name and No	**SIDEWINDER 1-H**	*Lease Offshore Area*	**SWEETWATER**		
Contractor	**SST**	*Legal description*	**2-19N-97W**		
Rig Name/Number	**88**	*State*	**WYOMING**		

Interval Start Date 8/4/99
Interval beginning depth 1300 ft
Interval End Date 1/6/00
Interval ending depth 16876 ft

All volumes in bbl

Mud Made

Water added:	**14033**
Brine added:	
Oil added:	**187**
Whole mud added:	**400**
Chemicals added:	
Barite added:	**10**
Mud received:	
Other gains:	**376**
Total volume additions:	**15006**

Mud Lost

Mud dumped:	**5723**
Mud lost on surface:	**3792**
Mud lost down hole:	**3155**
Mud lost to solids control:	
Other losses:	**86**
Left in hole:	**410**
Mud returned:	
Behind casing:	
Total volume lost:	**13166**

Volume made per ft of hole:	**0 96**
Volume lost per ft of hole:	**0 85**
Volume lost per day:	**84 40**
Volume made per day:	**96 19**
Hole size:	**17 5 - 12 25 - 9 875 - 8 5 - 6 5 in**

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Mud Properties

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Mud Properties - Water based

Operator	**UNOIN PACIFIC RESOURCES**	*Field or Block No.*	**SIDEWINDER**	*Country*	**USA**
Well Name and No.	**SIDEWINDER 1-H**	*Lease Offshore Area*	**SWEETWATER**		
Contractor	**SST**	*Legal description*	**2-19N-97W**		
Rig Name/Number	**88**	*State*	**WYOMING**		

Report Date	Depth MD ft	FL Temp. F	Test Temp. F	Mud Wt. ppg	Funnel Visc. sec/qt	PV cp	YP lbs/100ft2	Gels 10 sec lbs/100ft2	Gels 10 min lbs/100ft2	Gels 30 min lbs/100ft2	API Filt. cc	HTHP cc	HTHP F	Cake API	Cake HTHP	Solids crtd Pct.	Water Pct.	Glycol Pct.	Oil Pct.	Sand Pct.	MBT ppb	pH	Alk Pm ml	Alk Pf ml	Alk Mf ml	Chloride Mg/l	Total Hdns mg/l	ASG	LGS ppb	HGS ppb
8/4/99	0			8.3	26	0	1									-0.01	100				0.00	8		0.05	0.4	100	10			
8/5/99	740	110		8.6	32	3	1		1		N/C			1		1.99	98			1/8	10.00	8.8	0.35	0.15	0.4	100	10	2.52	19.01	-1.39
8/6/99	1297			8.8	30	1					N/C					3.49	96.5			NIL	10.00	9	0.55	0.2	0.5	100	10	2.56	32.68	-1.42
8/7/99	1297			8.4	26	0	1									-0.01	100				0.00	8.8		0.1	0.4	100	10			
8/8/99	2412			8.8	28	1			1		N/C					3.89	96.1			NIL	0.00	9	0.45	0.2	0.4	100	10	2.40	39.96	-7.30
8/9/99	3354			8.4	26	0	1									-0.01	100				0.00	8.8		0.1	0.35	100	30			
8/10/99	4963			8.4	26	0	1									-0.01	100				0.00	10.2		0.25	0.4	100	30			
8/11/99	6244			8.45	27	0	1									0.99	99				0.00	10.3		0.3	0.6	100	10	2.25	11.03	-3.20
8/12/99	7003			8.4	26	0	1									-0.01	100				0.00	9.9		0.2	0.4	100				
8/13/99	7558			8.4	26	0	1									-0.01	100				0.00	9.6		0.15	0.35	100	30			
8/14/99	7720			8.4	26	0	1									-0.01	100				0.00	9.2		0.1	0.3	100				
8/15/99	8158			8.4	26	0	1									-0.01	100				0.00	9.54		0.15	0.4	100	30			
8/16/99	8397			8.45	30	3	2	1	2		21			1		0.99	99				8.00	8.8	0.15	0.1	0.25	100	10	2.25	11.03	-3.20
8/17/99	8678			8.6	31	3	3	2	4		19			2		1.99	98				12.00	9.3	0.3	0.2	0.3	100	10	2.52	19.01	-1.39
8/18/99	8975			8.8	38	9	10	2	6	14	14.5			2		3.49	96.5			NIL	16.00	9.5	0.25	0.1	0.25	100	10	2.56	32.68	-1.42
8/20/99	9351	95		9.7	40	15	15	3	6	12	13.8			2		7 49	92.5			1/2	0.00	8.7	0.25	0.05	0.4	100	30	3.16	44.14	38.86
8/21/99	9549	130		9.8	46	18	19	4	12	19	13.8			2		8.49	91.5			1/2	20.00	8.62	0.25	0.05	0.45	100	30	3.05	55.53	35.17
8/22/99	9709	130		10.1	43	16	16	3	15		13.2			2		9.49	90.5			1/2	26.50	8.8	0.2	0.15	0.45	100	30	3.21	53.28	53.50
8/23/99	9853	128		10.1	47	17	16	3	17	27	13.6			2		9.99	90			1/2	28.00	8.65	0.2	0.05	0.55	100	30	3.10	62.38	46.15
8/24/99	9963	110		10.2	56	22	26	4			13.4			3		10.49	89.5			1/2	29.00	8.56	0.2	0.05	0.6	100	30	3.12	64.67	49.81
8/25/99	10245	148		10.1	45	18	17	3	12		14.2			3		10.99	89			3/4	30.00	8.94	0.25	0.075	0.6	100	20	2.91	80.58	31.45
8/26/99	10382	129		10.3	60	23	27	5	33	45	13.6			5		11.98	88			3/4	32.00	8.95	0.35	0.05	0.65	400	20	2.95	85.03	38.73
8/26/99	10602	146		10.3	44	16	15	3	21	38	13			2		12.48	87.5			1/2	32.00	9.2	0.45	0.1	0.7	300	20	2.87	94.17	31.40
8/27/99	10865	150		10.6	49	22	25	4	25		12.4			3		13.98	86			1/2	33.00	9.23	0.5	0.1	0.7	300	20	2.93	101.03	42.37
8/29/99	11119	151		10.55	48	22	22	3	31	54	13.6			3		13.98	86			1/4	32.00	9.21	0.5	0.1	0.75	300	20	2.89	104.44	36.87
8/30/99	11183			10.75	60	24	33	5	40	71	12.4			3		15.48	84.5			1/4	36.00	8.98	0.45	0.1	0.85	300	20	2.86	118.11	36.84
8/31/99	11440	150		10.5	55	23	29	7	40	70	11.8			3		14.18	85.8			1/4		8.75	0.4	0.1	0.8	300	20	2.82	111.48	28.42
10/13/99	11675	148		10.6	49	18	21	6	35	55	10.4			2		13.78	86.2			1/4	35.00	9.1	0.4	0.15	0.8	300	40	2.96	97.39	45.31
9/2/99	11973	150		10.6	44	18	24	5	32	60	10.2			2		14.08	85.9			TR	36.00	9.2	0.4	0.15	0.8	300	60	2.92	102.85	40.90
9/3/99	12000			10.6	41	12	18	5	20	40	10.4			2		13.78	86.2			TR	34.00	9.1	0.4	0.1	0.8	300	60	2.96	97.39	45.31
9/4/99	12000			10.7	44	16	21	6	21	51	11.2			2		14.38	85.6			TR	36.00	8.7	0.4	0.1	0.9	300	40	2.96	101.49	47.50
10/14/99	12000			10.6	41	16	16	4	10	18	11.8			2		13.28	86.7			TR	32.00	8.6	0.3	0.05	0.5	300	20	3.03	88.29	52.66
9/6/99	12000			10.6	42	15	17	4	10	20	11.8			2		13.28	86.7			TR	32.00	8.5	0.3	0.05	0.6	300	20	3.03	88.29	52.66
9/7/99	12000			10.5	44	20	12	2	12	32	10.6			2		12.48	87.5			TR	32.00	9.01	0.35	0.1	0.75	300	20	3.07	80.54	53.41
9/8/99	12020			10.55	38	16	7	1	8	27	11.4			2		12.48	87.5			TR	31.00	9.8	0.7	0.5	1.3	300	20	3.11	77 13	58.92
9/9/99	12330	121		11.5	41	20	10	2	4	11	10.4			2		13.98	86			TR	21.00	9.64	0.75	0.4	0.8	300	20	3.70	39.69	141.45
9/10/99	12770	126		11.5	43	23	14	3	5	10	9.7			2		13.98	86			TR	21.00	9.56	0.75	0.3	0.85	300	20	3.70	39.69	141.45
9/11/99	13545	131		11.8	45	25	15	2	8	21	10.4			2		15.98	84			TR	23.00	9.15	0.6	0.15	0.8	300	20	3.59	55.65	145.08
9/12/99	14078	133		11.75	49	31	25	3	18	41	10.8			2		15.98	84			TR	27.00	8.9	0.6	0.1	0.8	300	10	3.55	59.06	139.58
9/13/99	14333	124		11.75	31	31	33	3			10.4			2		16.99	83			TR	27.00	8.85	0.6	0.1	0.85	300	10	3.40	77.26	124.88
9/14/99	14649	140		11.8	51	28	24	3	35	64	10.3			2		17 49	82.5			TR	30.00	9.54	0.8	0.4	1.2	300	10	3.37	82.95	123.03
9/15/99	15013	139		14	49	36	24	4	21	48	9.6			2		25.99	74			TR	20.00	9.35	0.7	0.25	0.9	300	10	3.61	87.73	240.28

Report Date	Depth MD ft	FL Temp. F	Test Temp. F	Mud Wt. ppg	Funnel Visc. sec/qt	PV cp	YP lbs/100ft2	Gels 10 sec lbs/100ft2	Gels 10 min lbs/100ft2	Gels 30 min lbs/100ft2	API Filt. cc	HTHP cc	HTHP F	Cake API	Cake HTHP	Solids crtd Pct.	Water Pct.	Glycol Pct.	Oil Pct.	Sand Pct.	MBT ppb	pH	Alk Pm ml	Alk Pf ml	Alk Mf ml	Chloride Mg/l	Total Hdns mg/l	ASG	LGS ppb	HGS ppb
9/16/99	15320	140		14.15	42	29	18	4	18	38	9.7			2		24.49	75.5			TR	19.00	9.1	0.7	0.15	0.8	300	10	3.84	50.21	278.85
9/17/99	15344	126		14.1	58	38	39	6	31	73	10.8			2		24.99	75			TR	19.00	8.86	0.65	0.15	0.8	300	10	3.76	62.72	265.99
9/18/99	15406	139		14.1	42	27	20	3	16	36	9.6			2		23.99	76			TR	18.00	9.05	0.8	0.15	0.8	300	10	3.87	44.51	280.69
9/19/99	15465	132		14.3	44	27	21	3	12	28	9.4			2		23.99	76			TR	18.00	9.03	0.8	0.15	0.8	300	20	3.97	30.88	302.71
9/20/99	15465	122		14.5	47	33	29	3	26		9.7			2		24.99	75			TR	18.00	9.2	0.8	0.15	0.8	300	20	3.95	35.46	310.03
10/26/99	15465			14.5	45	27	21	3	14	29	9.5			2		24.99	75			TR	18.00	9.5	0.8	0.15	0.7	300	40	3.95	35.46	310.03
9/22/99	15559			14.5	46	26	29	5	14	29	9.6			2		23.99	76			TR	18.50	9.65	0.8	0.2	0.8	300	40	4.07	17.25	324.73
9/23/99	15549	132		14.5	38	20	15	3	20	42	9.8			2		24.49	75.5			TR	16.50	9.9	0.6	0.3	0.8	300	40	4.01	26.35	317.38
9/24/99																														
9/25/99	15723	140		14.9	41	26	27	5	27	52	9.6			2		25.99	74			1/4	16.50	10.4	0.7	0.5	1.2	300	60	4.02	26.40	339.36
9/26/99	15750			15.5	44	27	32	8	32	55	9.8			2		28.49	71.5			1/4	16.50	9.8	0.6	0.3	0.8	300	40	4.01	31.01	368.67
9/27/99	15750			15.3	48	32	38	12	14	66	11.4			2		28.09	71.9			1/4	16.00	10.6	1.8	0.5	1	300	100	3.97	37.36	352.53
9/28/99	15750			15	47	27	36	5	24	59	11.8			2		27.99	72			1/4	16.00	9.54	0.8	0.2	1.2	300	30	3.85	55.98	320.97
9/29/99	14900	110		14.7	83	35	40	50	120		14.4			2		26.99	73			1/2	16.00	11.46	1.8	1.2	1.8	300	120	3.82	58.23	302.65
9/30/99	14900			14.2	42	22	12	9	65		13.8			2		26.49	73.5			1/2	15.00	10.53	1.5	0.6	1.3	300	100	3.65	83.20	254.95
10/1/99	14949	130		14.45	41	19	12	4	18	45	10.6			2		24.99	71		4	1/2	14.00	9.62	1.3	0.4	1.2	300	20	3.96	34.77	311.14
10/2/99	14976	115		14.4	54	29	20	6	48		10.8			2		24.99	71		4		15.00	9.78	1.4	0.5	1.3	300	20	3.93	38.18	305.64
10/3/99	15009	130		14	40	23	9	3	13	25	8.6			2		22.99	73.5		3.5	.125	13.00	9.49	1.1	0.45	1.2	300	20	3.97	29.55	290.17
10/4/99	15051	125		13.9	41	21	8	2	11	24	9.6			2		22.99	72		5	1/8	13.00	9.45	1	0.45	1.1	300	20	3.93	34.83	281.64
10/5/99	15136	130		14.1	41	22	9	2	11	24	10.2			2		23.99	73		3	1/8	13.00	9.42	0.9	0.35	1	300	20	3.90	41.45	285.65
10/6/99	15129			14.1	40	21	8	2	9	18	9.2			2		23.99	73		3	1/8	13.00	9.39	0.9	0.35	1	300	20	3.90	41.45	285.65
10/7/99	15216	128		14.35	42	26	10	3	11	38	9.8			2		25.49	73		1.5	1/4	20.00	9.35	0.7	0.25	0.8	300	20	3.83	53.25	288.65
10/8/99	15322	128		14.2	45	24	12	3	11	30	8.4			2		24.99	72		3	1/4	20.00	9.4	0.7	0.25	0.8	300	20	3.83	52.83	281.96
10/9/99	15364	122		14.4	41	28	14	4	12	34	8.8			2		24.99	72		3	1/4	20.00	9.58	0.6	0.25	0.6	300	20	3.92	39.20	303.98
10/10/99	15403	126		14.45	43	28	14	4	6	28	8.4			2		24.99	72		3	1/4	17.50	9.4	0.55	0.25	0.6	300	20	3.95	35.80	309.49
10/11/99	15433	128		14.55	47	30	15	4	20	36	8.0			2		25.99	70		4	1/4	12.50	9.35	0.55	0.2	0.6	300	20	3.89	46.16	307 45
10/12/99	15489	140		14.5	45	32	17	5	19	28	6.6			2		23.99	72		4	1/4	10.00	9.25	0.5	0.2	0.6	300	20	4.10	13.16	331.34
10/13/99	15519	126		14.5	46	30	10	3	14	24	7.0			2		23.99	72		4	3/4	10.00	9.2	0.5	0.15	0.55	300	20	4.10	13.16	331.34
10/14/99	15516			14.5	46	30	9	3	14	29	7.0			2		23.99	72		4	3/4	10.00	9.2	0.5	0.15	0.55	300	20	4.10	13.16	331.34
10/15/99	15541	125		14.5	48	29	13	3	16	25	7.3			2		23.99	72		4	1/2	10.00	9.34	0.5	0.15	0.55	300	20	4.10	13.16	331.34
10/16/99	15089	118		14.3	45	25	12	3	19	36	8.2			2		23.49	71.5		5	1/2	10.00	9.49	0.55	0.15	0.6	300	20	4.08	16.67	318.33
10/17/99	15541	135		14.45	42	27	11	2	11	22	8.6			2		23.99	71		5	1/2	10.00	9.41	0.5	0.15	0.6	300	20	4.09	15.55	327 49
10/18/99	15541	120		14.5	42	26	11	2	10	21	8.7			2		24.49	71		4.5	1/2	10.00	9.22	0.5	0.1	0.5	300	20	4.04	21.75	324.82
10/19/99	15541	115		14.5	43	27	13	2	12	24	8.6			2		24.99	70.5		4.5	1/2	10.00	9.15	0.45	0.1	0.5	300	20	3.98	30.86	317 47
10/20/99	15541	110		14.3	42	21	12	7	41	80	16.2			2		23.99	71.5		4.5	1/4	9.50	11.93	4.1	3.8	4.5	300	0	4.01	26.28	310.15
10/31/99	15541			14.3	42	50	10	7	40	80	16.2			3		23.99	71.5		4.5	1/4	9.50	11.8	4	3.8	4.5	300	0	4.01	26.28	310.15
10/22/99	15541	118		13.6	45	20	18	10	30	89	12			2		19.99	76		4	1/4	10.00	11.5	2	1.05	3.3	300	20	4.19	1.70	291.06
10/23/99	15580	122		14.1	46	30	19	6	19	36	9.2			2		20.99	76		3	1/4	8.75	10.9	1.5	1.25	2.8	300	20	4.31	-13.16	329.75
10/24/99	15618	118		14.1	42	24	12	5	17	26	10.4			2		22.99	75		2	1/4	7.50	11.36	2.3	1.3	2.8	300	20	4.01	24.27	298.70
10/25/99	15963	106		14	41	23	10	4	12	20	10.0			2		22.99	75		2	1/4	8.25	10.81	2.3	1.1	2.1	300	20	3.96	31.08	287.69
10/26/99	15727	106		14.3	47	30	15	5	14	21	9.8			2		23.99	74		2	1/4	7.50	10.85	2.8	1.1	2.8	300	20	3.99	28.84	306.02
11/27/99	15847			14.55	47	30	14	4	14	21	8.0			2		21.99	73		5	1/4	7.50	10.45	1.4	0.8	2.4	300	30	4.42	-27.67	367.90
10/28/99	15916			14.1	45	31	16	4	10	19	8.7			2		22.49	73.5		4	1/4	8.50	10.2	1.2	0.55	1.8	300	20	4.10	13.12	309.36
10/29/99	15965	108		14.1	46	35	15	2	9	17	9.0			2		22.49	73		4.5	1/4	8.00	10.2	1.2	0.5	1.6	300	20	4.10	12.61	310.19
10/30/99	16016	103		14.1	53	44	20	4	9	19	8.8			2		22.99	72		5	1/4	8.00	10.1	1.1	0.4	1.3	300	20	4.04	21.20	303.66
10/31/99	15675	102		14.1	46	34	15	3			9.1			2		22.99	72		5	1/4	9.00	10	1.1	0.4	1.2	300	20	4.04	21.20	303.66
11/1/99	15660	103		14.1	46	35	15	3	10	17	9.3			2		23.49	72		4.5	1/4	9.00	9.94	1	0.35	1.1	300	20	3.97	30.81	295.49
11/2/99	15660	100		14.1	49	38	17	3	8		9.4			2		22.99	73		4	1/4	9.00	9.87	1	0.35	1.1	300	20	4.03	22.22	302.01

Report Date	Depth MD ft	FL Temp. F	Test Temp. F	Mud Wt. ppg	Funnel Visc. sec/qt	PV cp	YP lbs/100ft2	Gels 10 sec lbs/100ft2	Gels 10 min lbs/100ft2	Gels 30 min lbs/100ft2	API Filt. cc	HTHP cc	HTHP F	Cake API	Cake HTHP	Solids crtd Pct.	Water Pct.	Glycol Pct.	Oil Pct.	Sand Pct.	MBT ppb	pH	Alk Pm ml	Alk Pf ml	Alk Mf ml	Chloride Mg/l	Total Hdns mg/l	ASG	LGS ppb	HGS ppb
11/3/99	15600	100		14.1	44	31	15	2	6	13	8.9			2		22.99	72		5	1/4	9.00	9.81	0.9	0.3	1.1	300	20	4.04	21.20	303.66
11/4/99	15626	100		13.95	44	31	14	2	6	13	9.0			2		22.99	72		5	1/4	9.00	9.8	0.8	0.25	1.1	300	20	3.96	31.42	287 15
11/5/99	15626	100		14	44	33	10	2	4	14	9.0			2		24.99	70		5	1/4	8.25	9.99	0.8	0.25	1.1	300	20	3.75	64.42	263.25
11/6/99	15622	100		14	45	32	12	3	5	16	9.0			2		24.99	70		5	1/4	8.25	9.3	0.8	0.25	1	300	20	3.75	64.42	263.25
11/7/99	15666	105		14	45	32	14	2	9	14	9.0			2		26.99	69		4	1/4	7.50	9.5	0.8	0.3	1.1	300	20	3.54	101.84	232.20
11/8/99	15870	105		14.1	45	35	14	3	9	16	9.0			2		26.99	69		4	1/4	7.50	9.5	0.8	0.25	1	300	20	3.58	95.03	243.21
11/9/99	15959	105		14	44	34	9	2	7	17	9.0			2		27.99	69		3	1/4	7.50	9.3	0.7	0.3	1	300	20	3.44	121.07	215.85
11/10/99	16003	105		14	47	33	13	2	4		9.0			2		25.99	72		2	1/4	7.50	9.8	0.8	0.5	1	300	20	3.62	85.69	243.59
11/11/99	16019			14.1	46	28	14	2	6	10	9.1			2		22.99	74		3	1/4	7.50	9.59	0.8	0.2	0.9	300	20	4.02	23.25	300.35
11/11/99	16133	106		13.7	43	28	11	2	5	9	9.2			2		21.99	75		3	1/8	8.00	9.31	0.6	0.125	0.8	300	20	3.94	32.31	271.02
11/12/99	16168	105		13.6	42	25	11	2	7	11	8.9			2		21.49	75.5		3	1/8	8.00	9.78	0.65	0.2	0.9	300	20	3.95	30.02	267.36
11/13/99	16231			13.4	42	24	9	3	5	9	8.6			2		21.99	75		3	1/8	10.50	9.35	0.6	0.125	0.8	300	20	3.78	52.75	237.99
11/14/99	16231			13.6	42	23	8	2	5	9	8.5			2		22.49	74.5		3	1/8	10.50	9.26	0.6	0.125	0.8	300	20	3.82	48.22	252.66
11/16/99	16231			13.5	42	22	10	3	5	8	9.3			2		21.49	77		1.5	1/8	12.50	8.7	0.5	0.05	0.7	300	20	3.89	38.37	253.87
11/16/99	16231			13.65	45	28	13	3	12	20	8.9			2		21.99	77		1	1/8	13.00	9.62	0.6	0.2	1	300	20	3.90	37.76	262.20
11/17/99	16284	100	70	13.8	43	19	13	2	11	18	9.5			2		22.99	76		1	1/4	12.50	9.1	0.4	0.2	0.8	300	40	3.85	45.74	264.02
11/18/99	16238	100	70	14.1	43	21	16	3	9	18	9.8			2		26.99	72		1	1/4	10.00	9.1	0.45	0.2	0.8	300	60	3.56	98.10	238.25
11/19/99	16242	98	70	15	48	45	20	6	16	25	10.0					27.99	71		1	1/4	12.50	9.2	0.5	0.25	0.8	300	40	3.85	54.96	322.63
11/20/99	16265	100	70	14.9	45	27	17	4	10	17	10.2			2		25.99	71		3	1/2	10.00	9	0.4	0.3	0.8	300	40	4.04	23.33	344.33
11/21/99	16308		70	15	45	28	12	3	9	16	10.0			2		26.99	68		5	1/2	10.00	9.1	0.4	0.3	0.8	300	40	3.99	32.67	343.95
11/22/99	16308		70	15.1	43	26	13	3	10	15	10.0			2		26.99	68		5	1/2	10.00	9.1	0.45	0.3	0.8	300	40	4.03	25.86	354.95
11/23/99	16308		70	15.1	43	27	13	2	9	15	10.0			2		26.99	68		5	1/2	10.00	9.1	0.4	0.3	0.8	300	40	4.03	25.86	354.95
11/24/99	16308		45	15.1	58	42	18	5	14	17	9.7			2		26.99	68		5	1/2	10.00	9.35	0.45	0.15	0.9	300	40	4.03	25.86	354.95
11/25/99	16308		55	15.3	47	32	20	5	9	15	9.5			2		27.99	67		5		10.00	9.36	0.4	0.15	0.8	300	40	4.01	30.43	362.27
11/26/99	16308		60	15.5	45	28	16	4	9	13	9.4			2		28.49	66.5		5	1/2	10.00	9.13	0.4	0.125	0.8	300	40	4.04	25.90	376.94
11/27/99	16308		65	15.1	44	27	19	6	12	17	9.3			2		27.99	67		5	1/4	11.00	8.93	0.35	0.1	0.8	300	40	3.92	44.06	340.25
11/28/99	16035		60	15	44	30	13	3	11	18	9.3			2		26.49	70.5		3	1/4	12.00	9.51	0.4	0.175	0.6	300	40	4.03	25.62	347.99
11/30/99	16035	85	79	14.9	53	40	23	7	12	16	9.7	21	225	2	7	25.99	71		3	1/4	11.00	8.89	0.35	0.1	0.7	300	40	4.04	23.33	344.33
12/1/99	16035		70	14.9	45	30	16	6	9	12	9.3			2		26.49	70		3.5	1/4	11.00	9.2	0.4	0.15	0.7	300	40	3.99	31.92	337.80
12/1/99	16035		70	15	47	29	11	5	8	12	10.0			2		26.99	70		3	1/4	10.00	9.5	0.5	0.3	0.6	300	40	3.97	34.72	340.64
12/2/99	16035		70	15.1	47	28	14	4	9	15	10.0	19.0	240	2	5	27.99	69		3	1/4	10.00	9.5	0.5	0.3	0.6	300	40	3.91	46.10	336.95
12/3/99	15567	100	70	15.1	47	27	19	7	11	16	9.6	16.0	220	2	5	27.99	69		3	1/4	10.00	9.4	0.5	0.3	0.7	300	40	3.91	46.10	336.95
12/4/99	15578		70	15.4	48	29	22	9	12	16	9.6	18.0	220	2	5	28.49	69		2.5	1/4	10.00	9.5	0.5	0.3	0.6	300	40	3.98	35.27	361.80
12/5/99	15640	100	70	15.3	48	28	17	12	16	19	9.4	15.0	220	2	4	28.99	69		2	1/2	12.50	9.1	0.4	0.15	0.5	300	40	3.89	51.70	342.61
12/6/99	15673	105	70	15.3	48	26	26	8	11		9.2	19	240	2	4	27.99	70		2	1/4	10.00	9.29	0.45	0.2	0.6	300	40	3.99	33.49	357.31
12/7/99	15698	105	70	15.3	45	27	20	6	12	16	9.5	19	220	2	5	27.99	70		2	1/4	10.00	9.3	0.45	0.2	0.65	300	40	3.99	33.49	357.31
12/9/99	15729		65	15.7	47	32	20	5	8	12	9.2	18.5	220	2	5	29.49	68.5		2	.25	10.00	9.21	0.3	0.1	0.65	300	40	4.00	33.54	379.30
12/9/99	15935	104	73	15.4	42	32	20	5	8	11	9.4	14.8	220	2	5	27.99	70		2	< 1/8	10.00	9.13	0.3	0.1	0.65	300	40	4.03	26.68	368.32
12/10/99	16029		70	8.7	51	36	20	6	13	22	9.2	14.4	220	2	5	2.68	97.3			<1/8	13.00	9.35	0.3	0.15	0.65	300	40	2.57	24.84	-0.69
12/12/99	16060		63	15	45	31	15	4	8	12	9.1	13.8	220	2	5	26.49	71.5		2	<1/8	13.00	9.25	0.3	0.15	0.7	300	40	4.02	26.64	346.33
12/12/99	16096	89	73	14.5	62	50	26	6	8	11	7.2	13.5	220	1	4	24.99	72		3	<1/8	13.00	8.92	0.2	0.075	0.6	300	40	3.97	32.39	314.99
12/14/99	16212	92	77	14.4	48	35	18	5	8	12	7.3	13.3	220	1	4	24.99	70		5	<1/8	13.00	8.65	0.25	0.05	0.7	300	40	3.94	37 16	307.29
12/15/99	16278	79	56	14.4	49	35	20	5	8	11	7 1	13.2	220	1	4	24.99	70		5	1/8	13.00	8.8	0.3	0.05	0.6	300	40	3.94	37 16	307.29
12/15/99	16483	92	72	14.3	45	29	13	3	6	10	7.3	13.4	220	1	4	24.49	70.5		5	1/8	13.00	9.65	0.35	0.15	0.7	300	40	3.95	34.87	303.63
12/16/99	16513	92	70	14.4	46	30	16	4	7		7.8	14.0	220	1	4	24.99	70		5	1/4	10.00	9.5	0.5	0.3	0.7	300	40	3.94	37 16	307.29
12/17/99	16635	94	70	14.4	46	26	16	4	7		7.8	14	230	2	4	25.99	69		5	1/4	10.00	9.55	0.45	0.3	0.7	300	40	3.83	55.36	292.59
12/18/99	16733		70	14.5	47	30	18	4			7.8	13.8	230	2	4	25.99	69		5	1/8	10.00	9.7	0.55	0.3	0.8	300	40	3.87	48.55	303.60
12/19/99	16786	92	70	14.4	45	28	12	5	8	14	8.0	14.8	230	2	4	24.49	70.5		5	1/8	10.00	9.49	0.45	0.3	0.8	300	40	4.00	28.06	314.64

Report Date	Depth MD ft	FL Temp. F	Test Temp. F	Mud Wt. ppg	Funnel Visc. sec/qt	PV cp	YP lbs/100ft2	Gels 10 sec lbs/100ft2	Gels 10 min lbs/100ft2	Gels 30 min lbs/100ft2	API Filt. cc	HTHP cc	HTHP F	Cake API	Cake HTHP	Solids crtd Pct.	Water Pct.	Glycol Pct.	Oil Pct.	Sand Pct.	MBT ppb	pH	Alk Pm ml	Alk Pf ml	Alk Mf ml	Chloride Mg/l	Total Hdns mg/l	ASG	LGS ppb	HGS ppb
12/20/99	16865	96	70	14.4	46	28	12	4	8	14	7.8	13.9	230	1	4	24.49	70.5		5	1/8	10.00	9.55	0.5	0.3	0.8	300	40	4.00	28.06	314.64
12/21/99	16865	93	70	14.4	47	29	14	5	9	15	7.8	14.4	230	2	4	24.49	70.5		5	1/8	10.00	9.55	0.5	0.3	0.8	300	40	4.00	28.06	314.64
12/22/99	16876	93	70	14.5	48	30	12	4	7	14	7.8	15	230	2	4	24.99	70		5	1/8	10.00	9.55	0.5	0.3	0.8	300	40	3.99	30.34	318.30
12/23/99	16876		45	14.9	57	44	22	5	11	18	7.6	14.5	230	2	4	25.99	69		5	1/8	10.00	9.04	0.3	0.1	0.7	300	40	4.06	21.28	347.64
12/24/99	16876		46	15	56	42	18	5	11	19	7.4	14.3	230	2	4	26.99	68		5	1/8	10.00	8.89	0.3	0.075	0.7	300	40	3.99	32.67	343.95
12/26/99	16876		44	14.5	52	35	16	4	10		7.6			2		24.99	71		4	1/8	11.00	8.65	0.3	0.05	0.7	300	30	3.98	31.37	316.65
12/27/99	16876		53	14.3	56	40	25	6	14	22	9.1			2		24.49	72.5		3	1/8	12.00	8.59	0.25	0.05	0.7	300	30	3.93	36.92	300.32
12/28/99	16876		56	14.3	45	31	10	3	5	7	8.8	14.8	230	2	4	24.49	72.5		3	1/8	12.00	8.69	0.2	0.05	0.7	300	30	3.93	36.92	300.32
12/28/99	16876		40	14.3	43	26	8	1	2	4	8.7			2		24.49	72.5		3	1/8	12.00	8.92	0.3	0.075	0.7	300	30	3.93	36.92	300.32
12/29/99	16876		40	14.3	43	25	8	3	5	7	8.6			2		24.49	72.5		3	1/8	12.00	8.84	0.3	0.075	0.7	300	30	3.93	36.92	300.32
12/30/99	16876	84	65	14.4	48	35	12	3	4	8	8.8			2		24.99	72		3	1/8	12.00	8.57	0.25	0.05	0.7	300	30	3.92	39.20	303.98
12/31/99	16876		40	14.3	42	22	8	2	3		8.2			2		24.49	72.5		3	1/8	12.00	8.95	0.3	0.1	0.75	300	30	3.93	36.92	300.32
1/1/00	16876		40	14.3	44	27	10	3	4	8	8.1			2		24.49	72.5		3	1/8	12.00	8.74	0.3	0.075	0.7	300	30	3.93	36.92	300.32
1/2/00	16876		40	14.4	46	29	10	3	5	9	8.0			2		24.99	72		3	1/8	12.00	8.86	0.3	0.075	0.75	300	30	3.92	39.20	303.98
1/3/00	16876	66	64	14.4	52	37	13	4	7	13	8.8			2		25.49	71.5		3	1/8	12.00	8.53	0.25	0.05	0.8	300	30	3.87	48.30	296.63
1/4/00	16876		66	14.35	42	25	5	1	2	3	8.4			2		24.99	72		3	.125	12.00	9.1	0.3	0.2	0.7	300	30	3.90	42.61	298.48
1/5/00	16876		58	14.35	52	47	12	3	5	10	8.0			2		24.99	72		3	.125	12.50	8.9	0.35	0.15	0.7	300	30	3.90	42.61	298.48
1/6/00	16876	88	69	14.35	50	36	10	2	4	7	8.4			2		24.99	72		3		12.50	8.85	0.3	0.1	0.8	300	30	3.90	42.61	298.48

5 Remarks

BAKER HUGHES
INTEQ

Remarks, Recommendations and Problem log

Operator	**UNOIN PACIFIC RESOURCES**	*Field or Block No*	**SIDEWINDER**	*Country*	**USA**
Well Name and No	**SIDEWINDER 1-H**	*Lease Offshore Area*	**SWEETWATER**		
Contractor	**SST**	*Legal description*	**2-19N-97W**		
Rig Name/Number	**88**	*State*	**WYOMING**		

Date	Remarks	Recommendations
8/4/99		SPUD W/WATER SWEEP HOLE AS NEEDED W/15 SX GEL/1 SX LIME NEW DRILL DOWN DRILL PIPE ON CONNECTIONS ONLY AS NEEDED SAPP AS NEEDED FOR BIT BALLING RUN ALL SOLIDS COTROL EQUIPMENT DUMP SAND TRAP AS NEEDED
8/5/99		DUMP SAND TRAP ON CONNECTIONS WATER AS NEEDED TO KEEP VIS & WT AS LOW AS POSSIBLE SWEEP HOLE AS NEEDED 70-80 VIS W/15 SX GEL/1 SX LIME SAPP AS NEEDED FOR BIT BALLING
8/6/99		DUMP AND CLEAN TANKS FILL W/RES PIT WATER ADD 10 SX LIME TO TANKS PRIOR TO DUMPING TO HELP FLOC RES PIT
8/7/99		DRILL OUT WITH WATER LET MUCH AS POSSIBLE CEMENT CONTAMINATED WATER GO TO RES PIT KEEP WT AS LOW AS POSS BY DUMPING & DILUTION RUN ALL SOLIDS CONTROL EQUIP SWEEP HOLE AS NEEDED SAPP AS NEEDED FOR BIT BALLING MUD UP @ +- 3700' FOR LOWER FT UNION

8/8/99

KEEP WT AS LOW AS POSS BY DUMPING & DILUTION

RUN ALL SOLIDS CONTROL EQUIP
SWEEP HOLE AS NEEDED
SAPP AS NEEDED FOR BIT BALLING

MUD UP @ +- 3700' FOR LOWER FT UNION

8/9/99

CIRC RES PIT
ADD 8 SX LIME MORNING TOUR AND 4 SX LIME DAYLIGHTS
MIX POLYMER AT SUCTION 3 CANS/TOUR
SWEEP HOLE AS NEEDEDW/GEL AND LIME
SAPP AS NEEDED FOR BIT BALLING

8/10/99

CIRC RES PIT
ADD 4 SX LIME / TOUR TO RES PIT
MIX POLYMER AT SUCTION 3 CANS/TOUR
SAPP AS NEEDED FOR BIT BALLING
MUD UP DEPTH AS PER CO MAN
GEL FOR 32-34 VIS
2 SX CAUSTIC 1 HR /SX
2 SX MIL PAC 1 HR /SX
AFTER ALL GEL IS ADDED MIX 18 SX NEW DRILL PLUS, OVER 6 HRS

8/11/99

CIRC RES PIT
ADD GYPSUM 10 SX ON DAYLIGHTS
SWEEP HOLE ONC /TOUR AT BEGINNING OF TOUR 200 BBLS 100+ VIS
SAPP AS NEEDED FOR BIT BALLING
MUD UP DEPTH AS PER CO MAN
GEL FOR 32-34 VIS
2 SX CAUSTIC 1 HR /SX
2 SX MIL PAC 1 HR /SX
AFTER ALL GEL IS ADDED MIX 18 SX NEW DRILL PLUS, 30 MIN /SX

8/12/99

CIRC RES PIT
ADD GYPSUM 10 SX ON DAYLIGHTS
SWEEP HOLE ONC /TOUR AT

BEGINNING OF TOUR 200 BBLS 100+ VIS
SAPP AS NEEDED FOR BIT BALLING
MUD UP DEPTH AS PER CO MAN
GEL FOR 32-34 VIS
2 SX CAUSTIC 1 HR /SX
2 SX MIL PAC 1 HR /SX
AFTER ALL GEL IS ADDED MIX 20 SX NEW DRILL PLUS, 30 MIN /SX

8/13/99

CIRC RES PIT
ADD GYPSUM 10 SX ON DAYLIGHTS
SWEEP HOLE ONC /TOUR AT BEGINNING OF TOUR 200 BBLS 100+ VIS
SAPP AS NEEDED FOR BIT BALLING
MUD UP DEPTH AS PER CO MAN
GEL FOR 32-34 VIS
2 SX CAUSTIC 1 HR /SX
2 SX MIL PAC 1 HR /SX
AFTER ALL GEL IS ADDED MIX 20 SX NEW DRILL PLUS, 30 MIN /SX

8/14/99

CIRC RES PIT
TRICKLE 3 CANS POLY AT SUCTION PER TOUR
ADD GYPSUM 10 SX ON DAYLIGHTS
SWEEP HOLE ONC /TOUR AT BEGINNING OF TOUR 200 BBLS 100+ VIS
SAPP AS NEEDED FOR BIT BALLING
MUD UP DEPTH AS PER CO MAN
GEL FOR 32-34 VIS
2 SX CAUSTIC 1 HR /SX
2 SX MIL PAC 1 HR /SX
AFTER ALL GEL IS ADDED MIX 20 SX NEW DRILL PLUS, 30 MIN /SX

8/15/99

CIRC RES PIT
TRICKLE 3 CANS POLY AT SUCTION PER TOUR
ADD GYPSUM 10 SX ON DAYLIGHTS
SWEEP HOLE ONC /TOUR AT BEGINNING OF TOUR 200 BBLS 100+ VIS
SAPP AS NEEDED FOR BIT BALLING
MUD UP DEPTH AS PER CO MAN
GEL FOR 32-34 VIS
2 SX CAUSTIC 1 HR /SX
2 SX MIL PAC 1 HR /SX
AFTER ALL GEL IS ADDED MIX 20 SX NEW DRILL PLUS, 30 MIN /SX

8/16/99

GEL AS NEEDED FOR 32-34 VIS
ADD 2 SX LIME 1SX/HR AFTER GEL IS IN

LIME 1 SX /TOUR HRS/SX
WATCH FOR HOLE TAKING FLUID
MIX LCM SWEEPS IF NEEDED
5SX MIL SEAL
5SX MICA COARSE
5SX MICA FINE
5SX NUT PLUG
2SX CELOPHANE
TOOH BIT #6 TIGHT AT 4849-4226'
TIH TIGHT AT 2792-2886,3168,3325'
W&R 140' TO BTM MUDDING UP NO FLUID LOSSES

8/17/99

GEL AS NEEDED FOR 32-34 VIS
SMOOTH OUT LOWS & HIGHS

RUN ALL SOLIDS CONTROL EQUIP
PIT WATER 15 GPM DUMP SAND TRAP AS NEEDED
SWEEP HOLE ONCE /TOUR 20 BBLS
100+ VIS 10SX GEL TO1SX LIME
WATCH FOR HOLE TAKING FLUID
MIX LCM SWEEPS IF NEEDED
5SX MIL SEAL
5SX MICA COARSE
5SX MICA FINE
5SX NUT PLUG
2SX CELOPHANE
TOOH BIT #6 TIGHT AT 4849-4226'
TIH TIGHT AT 2792-2886,3168,3325'
W&R 140' TO BTM MUDDING UP NO FLUID LOSSES

8/18/99

GEL AS NEEDED FOR 36 VIS
RUN ALL SOLIDS CONTROL EQUIP
PIT WATER 15 GPM DUMP SAND TRAP AS NEEDED
SWEEP HOLE ONCE /TOUR 20 BBLS
100+ VIS 10SX GEL TO1SX LIME
WATCH FOR HOLE TAKING FLUID
MIX LCM SWEEPS IF NEEDED
5SX MIL SEAL
5SX MICA COARSE
5SX MICA FINE
5SX NUT PLUG
2SX CELOPHANE

8/20/99

GEL AS NEEDED FOR 39-40

RIG WATER 6-8 GPM
CAUSTIC 1SX /TOUR 3 HRS /SX
RUN DESANDER/MUD CLEANER
WATCH FOR LOSSES IN HOLE SET PIT MARKERS

CIRC & RAISE WT TO 9 6 3100 UNITS GAS W&R 30' FILL AFTER TRIP F/BIT #7

8/21/99

GEL AS NEEDED FOR 40 VIS
BAR AS NEEDED FOR 9 7-9 8

		RIG WATER 6-8 GPM CAUSTIC 1SX /TOUR 3 HRS /SX RUN DESANDER/MUD CLEANER WATCH FOR LOSSES IN HOLE SET PIT MARKERS
8/22/99		GEL AS NEEDED FOR 40 VIS BAR AS NEEDED FOR 10 1 PIT WATER 10-12 GPM CAUSTIC 1SX /TOUR 3 HRS /SX DUMP SAND TRAP AS NEEDED WATCH FOR LOSSES IN HOLE SET PIT MARKERS
8/23/99		GEL AS NEEDED FOR 40 VIS BAR AS NEEDED FOR 10 1 PIT WATER 10-12 GPM CAUSTIC 1SX /TOUR 3 HRS /SX DUMP SAND TRAP AS NEEDED WATCH FOR LOSSES IN HOLE SET PIT MARKERS
8/24/99	TRIPPED FOR BIT #10 NO PROBLEMS ON TRIP LOST ABOUT 75 BBLS ON TRIP	GEL AS NEEDED FOR 40 VIS BAR AS NEEDED FOR 10 1 PIT WATER 10-12 GPM CAUSTIC 1SX /TOUR 3 HRS /SX DUMP SAND TRAP AS NEEDED
8/25/99		GEL AS NEEDED FOR 40 VIS BAR AS NEEDED FOR 10 1 PIT WATER 10-12 GPM CAUSTIC 1SX /TOUR 3 HRS /SX DUMP SAND TRAP AS NEEDED
8/26/99		GEL AS NEEDED FOR 40 VIS BAR AS NEEDED FOR 10 1

		PIT WATER 10-12 GPM CAUSTIC 2SX /TOUR 3 HRS /SX DUMP SAND TRAP AS NEEDED
8/26/99		GEL AS NEEDED FOR 40 VIS BAR AS NEEDED FOR 10 4 PIT WATER 10-12 GPM CAUSTIC 2SX /TOUR 3 HRS /SX DUMP SAND TRAP AS NEEDED
8/27/99		GEL AS NEEDED FOR 40 VIS BAR AS NEEDED FOR 10 4 PIT WATER 10-12 GPM DUMP SAND TRAP AS NEEDED
8/29/99		GEL AS NEEDED FOR 40 VIS BAR AS NEEDED FOR 10 4 CAUSTIC 2 SX /TOUR 2 5 HRS/SX LIGCO 5 SX/TOUR 30 MIN/SX PIT WATER 10-12 GPM DUMP SAND TRAP AS NEEDED
8/30/99	LOST 91 BBLS ON TRIP NO PROBLEMS ON TRIP	SEE ENGINEER ON LOCATION
8/31/99		SEE ENGINEER ON LOCATION SHUT OFF BARITE RECOVRY @ 21 00 ON 8-30 RUNNING #2 CENTRIFUGE ON ACTIVE SYSTEM TO LOWER SOLIDS BACTERIA BOTTLES SHOT ON 8-30-99 HAVE TURNED ON THE RESEVRE PIT (BOTH TYPES)
10/13/99		SEE ENGINEER ON LOCATION
9/2/99		SEE ENGINEER ON LOCATION WILL RUN HIGH VIS/LCM SWEEP

	AFTER SHORT TRIP
9/3/99	SEE ENGINEER ON LOCATION RUN A 200 BBL HIGH VIS SWEEP WHEN ON BOTTOM* NO SAWDUST IN SWEEP
9/4/99	SEE ENGINEER ON LOCATION
10/14/99	SEE ENGINEER ON LOCATION
9/6/99	SEE ENGINEER ON LOCATION
9/7/99	SEE ENGINEER ON LOCATION
9/8/99	SEE ENGINEER ON LOCATION
9/9/99	SEE ENGINEER ON LOCATION
9/10/99	SEE ENGINEER ON LOCATION
9/11/99	SEE ENGINEER ON LOCATION

9/12/99	DRILLED BENTONIT STRINGRS TREATED RESVERE PIT FOR BACTERIA	CAUSTIC 3 SX /TOUR 2 HRS /SX LIGCO 10SX ON MORNING TOUR DRILL THIN 3 SX DAYLIGHTS 40 MIN/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 6-8 GPM
9/13/99	TRIPPED FOR BIT #15 WASHED 20' TO BTM	CAUSTIC 3 SX /TOUR 2 HRS /SX DRILL THIN 3 SX /TOUR 45MIN/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 10 GPM
9/14/99	BENTONITE STRINGERS & TEMP EFFECTING MUD	CAUSTIC 3 SX /TOUR 2 HRS /SX MIL PAC 2SX /TOUR 3 HRS /SX LIME 2 SX /TOUR 3 HRS/SX DRILL THIN 3 SX /TOUR 45MIN/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/15/99	DRILLED AHEAD ENCOUNTRED FRACTURES RAISED WT FOR BGG	LIME 3SX/TOUR 3 HRS/SX MIL PAC 2SX /TOUR 3 HRS /SX LIME 3 SX /TOUR 3 HRS/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/16/99		LIME 3SX/TOUR 3 HRS/SX MIL PAC 2SX /TOUR 3 HRS /SX TEC THIN 6SX /TOUR 1HR/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/17/99		LIME 3SX/TOUR 3 HRS/SX

		MIL PAC 2SX /TOUR 3 HRS /SX TEC THIN 6SX /TOUR 1HR/SX MIL PAC R 2SX/TOUR 1 5HRS/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/18/99	NO PROBLEMS ON TRIP'S SLOW ROP TOH	LIME 3SX/TOUR 3 HRS/SX MIL PAC 2SX /TOUR 3 HRS /SX TEC THIN 6SX /TOUR 1HR/SX MIL PAC R 2SX/TOUR 1 5HRS/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/19/99	LOST ? 300BBLS MUD ON TRIP F/BIT #17 MIXED LCM SWEEP CURED LOSSES WHILE DRILLING TOOH F/BIT #18	CAUSTIS 3SX/TOUR 3 HRS/SX MIL PAC 2SX /TOUR 3 HRS /SX TEC THIN 6SX /TOUR 1HR/SX MIL PAC R 2SX/TOUR 1 5HRS/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/20/99	NO PROBLEMS ON TOOH, BIT MISSING 3 CONES TIH W/FISHING TOOLS W&R 15' O O GAUGE HOLE TOOH TREATED FOR BACTERIA	CAUSTIS 3SX/TOUR 3 HRS/SX MIL PAC 2SX /TOUR 3 HRS /SX TEC THIN 6SX /TOUR 1HR/SX MIL PAC R 2SX/TOUR 1 5HRS/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
10/26/99	NO RECOVERY ON CONES TRIP IN WITH MILL	CAUSTIS 3SX/TOUR 3 HRS/SX MIL PAC 2SX /TOUR 3 HRS /SX TEC THIN 6SX /TOUR 1HR/SX MIL PAC R 2SX/TOUR 1 5HRS/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/22/99	DID NOT RECOVER CONES TRIPPED IN WITH BIT TO DRILL	CAUSTIS 3SX/TOUR 3 HRS/SX MIL PAC 2SX /TOUR 3 HRS /SX TEC THIN 6SX /TOUR 1HR/SX

		MIL PAC R 2SX/TOUR 1 5HRS/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/23/99	DRILLING AHEAD NO PROBLEMS ADDED 200 BBLS OF RESVERE PIT WATER	CAUSTIS 3SX/TOUR 3 HRS/SX MIL PAC 2SX /TOUR 3 HRS /SX TEC THIN 6SX /TOUR 1HR/SX MIL PAC R 2SX/TOUR 1 5HRS/SX NEW VIS IF NEEDEDFOR EXTRA VIS WATER 8-10 GPM
9/24/99	DRILLED AHEAD RAISEDMUD WEIGHT TO HOLD BACK GAS FROM FRONTIER FORMATION	CAUSTIS CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
9/25/99	DRILLED AHEAD NO PROBLEMS	CAUSTIS CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
9/26/99	DRILLED TO 15750' RAN SHORT TRIP THROUGH OPEN HOLE RAISED MUD WEIGHT TO HOLD BACK GAS RAN GYRO-NO PROBLEMS TRIPPING OUT FOR LOGS	CAUSTIS CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
9/27/99	MUD IS CEMENT CONTAMINATED (SLIGHT) USING FRESH WATER TO LOWER MUD WEIGHT TO 14 9 SHOULD BRING FLOW PROPERTIES BACK IN LINE OTHER THAN WATER NO OTHER TREATMENT FOR CEMENT SHOULD BE NEEDED RAN LOGS-NO PROBLEMS TRIPPED IN&SET 1,000' CEMENT PLUG NO PROBLEMS ON TRIP LOGS SHOWAN AVERAGE HOLE SIZE OF 10"	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
9/28/99	TOOH 13 STD'S	CHECK WITH MUD ENGINEER

	RIGGED TOP DRIVE CIRC BTMS UP TOH FOR BHA FOR CURVE	DUMP SAND TRAP AS NEEDED
9/29/99	WASH 14152-14580' DRLG CEMENT 14580-14900'	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
9/30/99	TRIPPED FOR DIRECTIONAL BHA	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/1/99		CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/2/99		CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/3/99	TIME DRILLED TO START KICKOFF	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/4/99	SLIDE DRILLING ADDED 1208 GAL DIESEL TO BRING % UP TO 5%	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/5/99	SLIDE DRLG 15051-15136	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED

10/6/99	TRIPPED FOR BIT #21 AND CHG DGREE ON MOTOR MWD NOT READING TOOH	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/7/99	NO PROBLEMS DRLD TO 15216	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/8/99		CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/9/99		CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/10/99		CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/11/99		CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/12/99	DUMPED AND CLEANED SAND TRAPS TWICE 150BBLS CHANGD SHAKER SCREENS ON 1 TO 210/210 INCREASE IN FLOWLINE TEMP TO 140	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED

	STARTED TO ADD DRILL THIN & RUNNING 8GPM WATER	
10/13/99	AT 15434 TVD & 15372 TVD SAW A 4 DEGREE TEMP INCREASE DOWN HOLE & A 12 DEGREE FLOWLINE TEMP INCREASE ALSO A INCREASE OF 6 SEC IN VIS ADDING THINNERS	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/14/99	W&R 40FT TO BTM LAST 5FT OUT OF GAUGE	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/15/99	DRILLED TO 15541 68 DEGREE ANGLE TOOH CHG BHA TO REAM OUT CURVE TO 9 875"	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/16/99	REAM 15026 - 15537 BACK REAM 15537 -14975 TOOH PK UP HYD OPER REAMER TIH	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/17/99	REAM 14976 - 15541 PUMP SWEEP NO GREAT INCREASE IN CUTTINGS SPOT 25#/BBL BEADS IN CURVE TOOH TO RUN LINER SPOTTED 10 GAL XC102 THROUGHOUT HOLE	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/18/99	CUTTER O D ON REAMER 8 75 TIH W/NEW REAMER REAM F/15450' - 15541' PUMP SWEEP SPOT 25#/BBL BEADS THRU CURVE TOOH	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/19/99	RUN LINER HUNG UP 40" OFF BTM CIRC & WORK PIPE FREE SET ON BTM CMT	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED

10/20/99	TOOH PK UP 8 5" BIT TIH DRESS CMT TO TOP OF LINER	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/31/99		CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/22/99	TESTED BOP PKUP 4" DP TIH TO TOP OF LANDING COLLAR 15451' DRLG CMT ADDING WATER & BAR TO REBUILD MUD AFTER DRLG CMT	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/23/99	TOH AFTER DRLG CMT PKUP BHA TIH DRLG AHEAD REBUIDING VOL CLEANING CMT CONTAMINATED PITS	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/24/99	DRLG 15618 TRP F/ BIT	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/25/99	DRL AHEAD	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/26/99	AS PER CO MAN ORDERS NO MORE ZANPLEX ONLY GEL BAR CAUSTIC AND MIN PAC	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED

11/27/99	RAISED MUD WT TO 14 5 HAVING TO BACK REAM ON CONNECTIONS RAISED OIL TO 5%	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/28/99	REAM 15711' TO BTM 15875 WELL SEEPING LOST 200 BBL DRILL TO 15916' TOH BIT 31	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/29/99	TIH HOLE W/BIT #31 REAM 15685- 15916' SLIGHT SEEPAGE TODAY DRILLED AHEAD 15916-15965' HOLE DRAGGING SPOTTED 25 BBL MIL LUBE & BEADS WORKED INTO HOLE STARTED PUMPING & DRILLING AGAIN	CHECK WITH MUD ENGINEER DUMP SAND TRAP AS NEEDED
10/30/99	ADDED 400 GALS DIESEL TOOH F/BIT #32 REAM FROM 5916/15965' DRILLED AHEAD 16016'	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 400 MIN/SX WATER 8 GPM DUMP SAND TRAP AS NEEDED
10/31/99	BIT CAME OUT TOP OF FORMATION MOVE UP HOLE TO 15675-15700' TO SIDE TRACK OUT BTM	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 8 GPM DUMP SAND TRAP AS NEEDED
11/1/99	TOOH F/BIT #33 TIH TO 15660' TIME DRILL TO SIDE TRACK OUT BTM	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX

		WATER 8 GPM DUMP SAND TRAP AS NEEDED
11/2/99	TRIP F/BIT #34 SIDE TRACK BIT SIDE TRACKING OUT BTM AT 15660'	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 8 GPM DUMP SAND TRAP AS NEEDED
11/3/99	ADDED 1400 GALS DIESEL COULD SIDE TRACK AT 15660 MOVED UP HOLE TO 15600', TRY AGAIN	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 8 GPM DUMP SAND TRAP AS NEEDED
11/4/99	TIME DRILL I/INCH TO 10 MIN 15600-15604' TIME DRILL 10MIN/INCH 15604-15605' TIME DRILL 5 MIN/INCH 15605-15610' TIME DRILL 5 MIN/INCH 15610-15614' LOST ORIENT ORIENT TOOL FACE @15613' TIME DRILL 5 MIN/INCH 15612-15613'	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 8 GPM DUMP SAND TRAP AS NEEDED
11/5/99	TIME DRILL 5 MIN/INCH 15613-15614' PUMP PILL/TOOH W/CHAIN TIH FILL EVERY45 STDS ORIENT TOOL/NOT GETTING PULSE PUMP PILL/TOOH	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED
11/6/99	TOOH TIH TIME DRILL FROM 15612-15622' PUMP PILL /TOOH	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED

11/7/99	TOOH CHANGE MUD MOTOR TIH ORIENT TOOL TIME DRILL 15620-15622' 5 MIN/INCH TIME DRILL 15622-15625' 5 MIN/INCH SLIDE W/25000 15625-15630' MOTOR STALLING REORIENT DRILL SLID 15630-15662 ROTATE 15662-15664 SLIDE 15664-15666	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED
11/8/99	ORIENT TRY SLIDE STALLING ROTATE 15666-15669' SLIDE 15669-15738 SLIDE 15738-15739 ROTATE 15739-15870 CIRC BTMS UP PUMP PILL TOOH	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED
11/9/99	TOOH CHANGE BIT TEST MOTOR WORK BLINDS 5"&4" & HYD TIH FILL PIPE, ORIENT THROUGH SIDE TRACK REAM TO BTM DRILL SLID 15870-15875' ROTATE 15875-15885' SLIDE 15885-15895' ROTATE 15895-15929' CIRC UP SAMPLE DRILL ROTATE 15929-15959'	BAR AS NEEDED FOR 14 1 WT GEL AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED
11/10/99	CIRC BTMS UP TOOH L/D BHA P/U CORE BARREL TIH CUT DRILL LINE 110' TIH WASH /15616-15687' + 10' TOBTM CORING 15959-15996' DT#84362 $369 60 DT#84358 $397 60	BAR AS NEEDED FOR 14 1 WT GEL 5SX TOURLY OR AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED
11/11/99	TIH MWD NOT WORKING TOOH CHNG TOOL TIH	BAR AS NEEDED FOR 14 1 WT GEL 5SX TOURLY OR AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 334 MIN/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED
11/11/99	TIH TEST MWD WASH THRU SIDETRACK REAM AND LOG CORED SECTION DRILL AHEAD	BAR AS NEEDED FOR 13 5 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL 5SX TOURLY OR AS NEEDED

	DT #84356 $212 50	FOR 45 VIS MIL PAC R 1SX /TOUR 5HRS/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED
11/12/99	TOOH F/BIT #40 WASH F/16050 -16100' REAM OUT OF GAUGE HOLE 16100 - 16143' DRILL AHEAD	BAR AS NEEDED FOR 13 5 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL 5SX TOURLY OR AS NEEDED FOR 45 VIS MIL PAC R 1SX /TOUR 5HRS/SX WATER 2-4 GPM DUMP SAND TRAP AS NEEDED
11/13/99	DRILL AHEAD TO 16231' MWD FAILURE TOOH CHG BHA TIH W/ BIT #41	BAR AS NEEDED FOR 13 5 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL AS NEEDED FOR 45 VIS WATER 3-4 GPM DUMP SAND TRAP AS NEEDED
11/14/99	TIH W/BIT #41 TIH TO SIDETRACK MWD FAILURE TOOH CHG BHA TIH TO SIDETRK BHA FAILURE TOOH	BAR AS NEEDED FOR 13 5 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL AS NEEDED FOR 45 VIS WATER 3-4 GPM DUMP SAND TRAP AS NEEDED
11/16/99	TOOH WET CK F/HOLE IN PIPE CHG OUT BHA TIH TO SIDETRACK MWD FAILURE TOOH	BAR AS NEEDED FOR 13 5 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL AS NEEDED FOR 45 VIS WATER 10 GAL/MIN TO REBUID VOL DUMP SAND TRAP AS NEEDED
11/16/99	TOOH LAY DOWN MWD TOOLS WAIT ON NEW MWD CO BUILT VOL IN TANKS BACK	BAR AS NEEDED FOR 13 5 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL AS NEEDED FOR 45 VIS

	AFTER WET TRIPS	WATER 3-GAL/MIN DUMP SAND TRAP AS NEEDED
11/17/99	WAIT ON NEW MWD, RIG UP MWD,P/UBHA PULSE TEST TIH FILL PIPE37-73 STDS ORIENT IN HOLE REAM TO BTM F/ 15778-15816', F/ 16123-16233' DRLG NO DIFF PRESS , ON MOTOR KEPT STALLING OUT TOP DRIVE PULL INTO CASING, MIX PUMP PILL TOOH DT #84373 $360 50 DT #84378 $379 40	BAR AS NEEDED FOR 13 9 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL 5 SX TOURLY OR AS NEEDED FOR 45 VIS WATER 3-GAL/MIN DUMP SAND TRAP AS NEEDED
11/18/99	TOOH LAY DOWN MOTOR, PU/MOTOR ORIENT TEST TIH FILL PIPE, ORIENT INTO SIDE TRACK, TIH SLOW, TRY ROTATE @ 16197' STALL TOP DRIVE TOH 4 STDS REAM F/15816-16233' ROTATE 16233-16238' ORIENT TOOL FACE DT#84383 $359 10 DT#84384 $329 00 RAISING MUD WEIGHT TO 15 0 PPG AT CO-MANS REQUEST	BAR AS NEEDED FOR 15 0-15 1 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL 5 SX TOURLY OR AS NEEDED FOR 45 VIS WATER 3-GAL/MIN DUMP SAND TRAP AS NEEDED RAISING MUD WEIGHT TO 15 0 PPG AT CO-MANS REQUEST
11/19/99	DRLG SLIDE 16238-16240', VERY STICKY SPOT MIL LUBE WITH BEADS WORK PIPE PULL 7 STDS TO CSG RAISE MUD WEIGHT TO 15 0 PPG TIH TO 15816 REAM AND LOG TO 16240' DRILL ROTATE 50-100 DIFF WOULD NOT DRILL OFF LOST CIRCULATION, APPROX 230 BBLS CIRC PUMP LCM PILL SPOT ON BTM PULL 7 STDS TO CSG BUILD 100 BBLS ANDPUMP PILL TOOH	BAR AS NEEDED FOR 15 0-15 1 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL 5 SX TOURLY OR AS NEEDED FOR 45 VIS WATER 3-GAL/MIN DUMP SAND TRAP AS NEEDED DT#84386 $566 70 DT#84387 $378 00
11/20/99	MIX PILL TOOH L/D MOTOR TST CHOKE AND MANIFOLD 10,00PSI P/U MOTOR ORIENT TEST CHANGE MWD TIH FILLING PIPE ORIENT INTO SIDE TRACK REAM F/16195-16240' LOGGINGWHILE REAMING ROTATE 16240-16245' SLIDE 16245-16260' LOST APPROX 130 BBLS ON TRIP TO SEEPAGE REBUILD VOL 230 BBLS	BAR AS NEEDED FOR 15 0-15 1 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL 5 SX TOURLY OR AS NEEDED FOR 45 VIS MIL PAC R 1 SX /TOUR @ 6HRS WATER 3-GAL/MIN DUMP SAND TRAP AS NEEDED DT#152092 $814 32

11/21/99	16260-16270' SLIDE ROTATE 16270-16288', CIRC SURVEY SLIDE 16288-16303', ROTATE 16303-16308' CIRC TRY ROTATE MOTOR STALLING, WORK TIGHT HOLE16308-16263' PULL UP TO CASING PUMP PILL TOOH L/D MOTOR BIT GONE ADDED 4200 GALS DIESEL TO MUD MIXED MIL LUBE AND LUBRIBEADS IN SWEEP WHILE WORKING TIGHT HOLE	BAR AS NEEDED FOR 15 0-15 1 WT CAUSTIC 1SX/TOUR 5HRS/SX GEL 5 SX TOURLY OR AS NEEDED FOR 45 VIS MIL PAC R 1 SX /TOUR @ 6HRS WATER 3-GAL/MIN DT#84395 $339 50 DT#84393 $352 80
11/22/99	TEST BOP TIH SLM WITHFISHING TOOLS CUT DRILLING LINE	BAR AS NEEDED FOR 15 0-15 1 WT CAUSTIC 1 SX /TOUR 5 HRS/SX GEL 5 SX TOURLY OR AS NEEDED FOR 45 VIS MIL PAC R 1 SX/TOUR @ 5 HRS WATER 3 GLS PER MIN DT#84392 $358 4 DT384394 $380 10
11/23/99	TIH WASH OVER FISH TOOH (CHAIN OUT WET) BREAK DOWN TOOL BUILD VOL WET TRIP LOST 350 BBLS MUDTIH DT#84502 $371 00	BAR AS NEEDED FOR 15 0-15 1 WT CAUSTIC 1 SX /TOUR 5 HRS/SX GEL 5 SX TOURLY OR AS NEEDED FOR 45 VIS MIL PAC R 1 SX/TOUR @ 5 HRS WATER 3 GLS PER MIN
11/24/99	TIH W/FISH TLS WASH OVER FISH JAR FREE MOVE UP HOLE TIGHT AGAIN GO BACK TO BTM TOOH DIDN'T RECOVER FISH PK UP TLS F/BTM OF MTR TIH	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 3GAL/MIN
11/25/99	TIH W/FISHING TOOLS 6 375" 0D COULDN'T GET THRU SHOE TOOH LEFT FISHING ASSEMBLY IN HOLE PK UP NEW TLS TIH TO FISH LATCH ON TOOH	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 3GAL/MIN

11/26/99	TOOH NO FISH W O TLS TIH LATCH ONTO FISH TOOH RETREIVED FISH	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 3GAL/MIN
11/27/99	TIH PUSH ROTOR AND BIT TO BTM PUMP SWEEPS 25BBLS 150+, 15BBLS H2O, 25 BBLS 150+, 15 BBLS H2O 25BBLS 150+ NO LARGE CUTTINGS RETREIVED TOOH PK UP TLS TO SIDE TRACK AROUND FISH	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 5 GAL/MIN
11/28/99	TIH STOP AT 16035 TO ORIENT FOR 1st SIDE TRACK PIPE GOT STUCK WORK PIPE PUMP SWEEP SPOT OIL WAIT AND WORK PIPE	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 5 GAL/MIN
11/30/99	BACK OFF AT 15241' TOOH F/COLLARS AND JARS TIH LATCH ON JAR, NO MOVEMENT SPOT 50 BBL BLACK MAGIC WORK PIPE DT # 84504,84505,84514,84516	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 5 GAL/MIN
12/1/99	CHECK FOR FREE POINT 15605' HAD TO PUMP TOOLS TO BTM RESPOTTED 50 BBLS BLACK MAGIC BACK OFF 1 JT INSIDE OF CSG TOOH F/ TOOLS	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 5 GAL/MIN
12/1/99	CIRC JAR ON FISH @15221' SPOT BLACK MAGIC, P/U BAKER TOBACK OFF@15506' TOOH L/D FISHING TOOLS &4 3/4 DC JTS 4"DP SHOT OFF P/U JARS SCREW IN SUB TIH SCREW INTO FISH JAR @15506' NOT ABLE TO CIRC PUMP DOWN BACK SIDE NO SUCCESS	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 5 GAL/MIN MIL PACR 1 SX /TOUR, @ 5HRS DT#152519 $ 855 32
12/2/99	JAR ON FISH @15506' R/UBAKER &FREEPOINT PUMPED 60BBLS GOT RETURNS R/D FREEPOINT CIRC AND JAR LOST 380 BBLS OVER SHAKERS WHILE CIRCULATING SAND SHALE BLACK MAGIC R/U FREEPOINT RUN SHOT TO BTM PUMPED TOOL OFF WAIT ON TOOLS RUN IN BACKED OFF	BAR AS NEEDED FOR 15 1 WT GEL AS NEEDED FOR 45 VIS CAUSTIC 1SX/TOUR 5HRS/SX WATER 5 GAL/MIN MIL PACR 1 SX /TOUR, @ 5HRS DT#1152579 $630 00 DT#1522580 $630 00 DT#152581 $630 00 DT#152530 $758 62 DT#84525 $377 30 DT#84524 $373 80
12/3/99	R/D BAKER FREEPOINT TOOH L/D1 JT 5"DP L/D 2JTS 4"DP L/D JARS& FISHING TOOLS & 2 JTS 4"DP SHOT OFF PU BHA TIH ORIENT TOOLS& TROUGHING TIME	BAR AS NEEDED FOR 15 2-15 5WT CAUSTIC SX/TOUR 5HRS/SX XANPLEX 5SX/TOUR@1HR/SX

	DRILL 15560-15567' 1'/HR RAISING MUD WEIGHT TO 15 5PPG MIXING XANPLEX RAISING VIS TO 48-52	WATER 5 GAL/MIN MIL PACR 1 SX /TOUR, @ 5HRS DT#152627 $630 00 DT#152626 $630 00
12/4/99	TIME DRILL 15567-15578' CIRC MIX PILL TOOH, PUMP 2ND PILL TOOH P/U NEW MOTOR , ORIENT & TEST TIH CUT DRILL LINE 107' TIH FILL DP	BAR AS NEEDED FOR 15 2-15 5WT CAUSTIC SX/TOUR 5HRS/SX XANPLEX 2 SX/TOUR@1HR/SX WATER 5 GAL/MIN MIL PACR 1 SX /TOUR, @ 5HRS
12/5/99	TIH ORIENT & REAM TO BTM 15564-15578' SLIDE F/15578-15640' CIRC BTMS UP PUMP PILL TOOH DUMPED AND CLEANED THE SAND TRAP AND THE SHALE TANK,136 BBLS	BAR AS NEEDED FOR 15 2-15 5WT CAUSTIC 1 SX/TOUR 5HRS/SX XANPLEX 2 SX/TOUR@1HR/SX WATER 5 GAL/MIN MIL PACR 1 SX /TOUR, @ 5HRS XC-102 2 CANS/TOUR@2 5 HRS/CAN
12/6/99	MIX PILL TOOH P/U MOTOR TIH ORIENT REAM TO BTM SLIDE 15640-15673' DT#84536 $376 6 DT# 139511 630 00 DT#139512 $630 00 DT#152668 $630 00 DT#152667 $630 00	BAR AS NEEDED FOR 15 2-15 5WT CAUSTIC 1 SX/TOUR 5HRS/SX XANPLEX 2 SX/TOUR@1HR/SX WATER 5 GAL/MIN MIL PACR 1 SX /TOUR, @ 5HRS XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 5SX /TOUR @1HR/SX
12/7/99	SLIDE 15673-15698' CHECK F/FLOW & PRESSURE DROP OK CIRC BTMS UP TOOH P/U MOTOR TIH WASH THROUGH SIDE TRACK TO BTM	BAR AS NEEDED FOR 15 4-15 5WT CAUSTIC 1 SX/TOUR 5HRS/SX XANPLEX 2 SX/TOUR@1HR/SX WATER 5 GAL/MIN MIL PACR 1 SX /TOUR, @ 5HRS XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 5SX /TOUR @1HR/SX
12/9/99	MWD FAILURE TOOH CHG BHA TIH BOL # 139511, 139512	BAR AS NEEDED FOR 15 4-15 5WT CAUSTIC 1 SX/TOUR 5HRS/SX XANPLEX 2 SX/TOUR@1HR/SX WATER 5 GAL/MIN MIL PACR 1 SX /TOUR, @ 5HRS XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 5SX /TOUR @1HR/SX
12/9/99	ROTORY DRILL FROM 15729' - 15935' PUMPED 70 BBL SWEEP 150 + VIS DIDN'T COME BACK	BAR AS NEEDED FOR 15 4-15 5WT CAUSTIC 1 SX/TOUR 5HRS/SX XANPLEX 2 SX/TOUR@1HR/SX

		WATER 3 -4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 5SX /TOUR @1HR/SX
12/10/99	LOST 300 BBL'S MUD PUMPED LCM SWEEPS OF CALCIUM CARBONATE AND FINE MICA DIFFERENTIAL STICKING WHILE SLIDING SPOTTED 70 BBL 15 #/BBL LCM ON BTM PULLED UP INTO CSG BUILT 100 BBL'S 15 2 MUD TOOH BUILT 200BBL 15 2 MUD	BAR AS NEEDED FOR 15 2 WT CAUSTIC 1 SX/TOUR 5HRS/SX XANPLEX 2 SX/TOUR@1HR/SX WATER 3 -4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 5SX /TOUR @1HR/SX
12/12/99	CHG BHA TIH ROTORY DRILL TO 16060' SHUT OFF PUMP TO ORIENT GOT DIFFERENTIALLY STUCK SPOTTED 70 BBL 8 7 MUD & 40 BBLS 8 5 BLACK MAGIC WORKED PIPE2 HRS CAME FREE TOOH TO INSPECT BHA REDUCING MUD WT TO 14 5 D T # 84549, 84550	BAR AS NEEDED FOR 14 5 WT CAUSTIC 1 SX/TOUR 5HRS/SX XANPLEX 3 SX/TOUR@1HR/SX WATER 3 -4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 5SX /TOUR @1HR/SX MIL PAC R 2SX/TOUR @ 2 5 HRS/SX
12/12/99	TIH REDUCED MUD WT TO 14 5 LOWERED FLUID LOSS TO <8cc's ADDED LIGNITE TO TIGHTEN WALLCAKE REAM FROM 15717' TO 16060' ROTORY DRILL TO 16096'	BAR AS NEEDED FOR 14 2 WT CAUSTIC 2 SX/TOUR 2 5HRS/SX XANPLEX 1 SX/TOUR@5HR/SX WATER 3 -4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 5SX /TOUR @1HR/SX MIL PAC R 2SX/TOUR @ 2 5 HRS/SX CALCIUM CARBONATE 12 SX/TOUR 1SX/HR FINE MICA 12SX/TOUR 1SX/HR
12/14/99	DRILLED TO 16158' TOOH F/BHA TIH SLIDE 16158 - 16168' ROTORY TO 16212'	BAR AS NEEDED FOR 14 2 WT CAUSTIC 2 SX/TOUR 2 5HRS/SX XANPLEX 1 SX/TOUR@5HR/SX WATER 4-5 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 12 SX/TOUR 1SX/HR FINE MICA 12SX/TOUR 1SX/HR
12/15/99	DRILL TO 16253 TOOH F/BHA DRILL TO 16278' 5-10K ON TOOH	BAR AS NEEDED FOR 14 4 WT CAUSTIC 2 SX/TOUR 2 5HRS/SX XANPLEX 1 SX/TOUR@5HR/SX

		WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 24 SX/TOUR 1SX/HR FINE MICA 24 SX/TOUR 1SX/HR
12/15/99	DRILL 16278' TO 16483'	BAR AS NEEDED FOR 14 4 WT CAUSTIC 2 SX/TOUR 2 5HRS/SX XANPLEX 2 SX/TOUR@5HR/SX WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 24 SX/TOUR 1SX/HR FINE MICA 24 SX/TOUR 1SX/HR
12/16/99	DRILL ROTATE 16430-16509' CIRC PUMP PILL TOOH CHANGE OUT BIT TIH MAT MIXED CAUSTIC 2SX/BAR 8 TON/XANPLEX 2SX/MICA 18SX/MIL CARB 18SX/XC-102 2SX/RENTAL 1/ENGINEERING 1/TAX $87 96	BAR AS NEEDED FOR 14 4 WT CAUSTIC 2 SX/TOUR 2 5HRS/SX XANPLEX 2 SX/TOUR@5HR/SX WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 24 SX/TOUR 1SX/HR FINE MICA 24 SX/TOUR 1SX/HR RUN MUD CLEANER 10 HRS AND RUN CENTRIFUGE 4 HRS
12/17/99	WASH & REAM 212' TO BOTTOM DRILL F/16509-16573', SURVEY DRILL F/16573-6635' MAT USED GEL 5SX/PAC R 1SX/XAN PLEX D 4 SX/CAUSTIC 4 SX/XC-102 4 CANS/CACO3 48SX/MICA FINE 48 SX/LICO 4 SX	BAR AS NEEDED FOR 14 4 WT CAUSTIC 2 SX/TOUR 2 5HRS/SX XANPLEX 2 SX/TOUR@5HR/SX WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 24 SX/TOUR 1SX/HR FINE MICA 24 SX/TOUR 1SX/HR RUN MUD CLEANER 10 HRS AND RUN CENTRIFUGE 4 HRS
12/18/99	DRILL 16513-16733', PUMP PILL TOOH MAT USED LIGCO 10SX /MILCARB 21SX /MIL PAC LV 2SX /MICA FINE 28SX /XANPLEX 2SX /XC-102 4CANS	BAR AS NEEDED FOR 14 4 WT CAUSTIC 1 SX/TOUR 2 5HRS/SX XANPLEX 2 SX/TOUR@5HR/SX WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 24 SX/TOUR 1SX/HR FINE MICA 24 SX/TOUR 1SX/HR RUN MUD CLEANER WHILE DRILLING

12/19/99	TOOH P/U BIT TIH WORK THROUGH SIDE TRACK WASH & REAM 60' TO BTM DRILL 16733-16765 WITH ANDER GAUGE CLOSED DRILL 16765-16786' WITH ANDER GAUGE OPEN MAT USED XAN PLEX 2 SX/LIGCO 2SX/ MIL CARB 24SX/MIC FINE 24SX/DT#8460 /DT#50049 S0 $262 50	BAR AS NEEDED FOR 14 4 WT CAUSTIC 1 SX/TOUR 2 5HRS/SX XANPLEX 2 SX/TOUR@5HR/SX WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 24 SX/TOUR 1SX/HR FINE MICA 24 SX/TOUR 1SX/HR RUN MUD CLEANER WHILE DRILLING
12/20/99	DRILL ROTATE 16832-16838',ANDER GAGE CLOSED CHANGE OUT MWD ON STD PIPE DRILL ROTATE 16838-16859' ANDER GAGE CLOSED CONN & SURVEY @16859' REAMED 3 TIMES DRILL 16859-16865 ANDER GAGE CLOSED CIRC BTMS UP TOOH	BAR AS NEEDED FOR 14 4 WT CAUSTIC 1 SX/TOUR 2 5HRS/SX XANPLEX 2 SX/TOUR@5HR/SX WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 24 SX/TOUR 1SX/HR FINE MICA 24 SX/TOUR 1SX/HR RUN MUD CLEANER WHILE DRILLING
12/21/99	CIRCULATE PUMP PILL TOOH CHANGE BHA TIH,TOOH 32 STDS F/SCREEN CUT DRILING LINE RIG SERVICE TIH REAM F/16766-16865' CIRC & MIX PILL TOOH	BAR AS NEEDED FOR 14 4 WT CAUSTIC 1 SX/TOUR 2 5HRS/SX XANPLEX 2 SX/TOUR@5HR/SX WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 12SX/TOUR 1SX/HR FINE MICA 12SX/TOUR 1SX/HR RUN MUD CLEANER WHILE DRILLING
12/22/99	CIRC PULL 4 STDS SOME TIGHTHOLE, PUMP SLUG TOOH CHANGE BHA, BIT, MOTOR, CHECK MWD TEST, P/U NEW ANDER GAGE CHANGE GRABBER DIES TIH REAM 16766-16867' ROTATE 16867-16876' CIRC BTMS PULL 4STDS PUMP PILL TOOH MIXED HIGH VIS SWEEP WHEN ON BTM	BAR AS NEEDED FOR 14 4 WT CAUSTIC 1 SX/TOUR 2 5HRS/SX XANPLEX 2 SX/TOUR@5HR/SX WATER 4 GAL/MIN XC-102 2 CANS/TOUR@2 5 HRS/CAN LIGCO 2 SX /TOUR @2 5 HR/SX CALCIUM CARBONATE 12SX/TOUR 1SX/HR FINE MICA 12SX/TOUR 1SX/HR RUN MUD CLEANER WHILE DRILLING
12/23/99	TIH W/LOGGING TOOLS COMPRESSION SENSOR DAMAGED TOOH TO CHG TIH W/NEW TOOLS	BAR AS NEEDED FOR 14 4 WT WHILE CIRCULATING 3-4 GAL/MIN WATER CAUSTIC 2 SX/2 5 HRS XC102 2 CANS/2 5 HRS
12/24/99	LOGGED HOLE W/ NO PROBLEMS TOOH NEW LOG TOOLS TIH	BAR AS NEEDED FOR 14 4 WT WHILE CIRCULATING 3-4 GAL/MIN WATER

CAUSTIC 2 SX 2 5 HRS/SX
XC102 2 CANS 2 5 HRS/CAN

12/26/99	LOG HOLE TO 16281' TOOLS STOPED TOOH LDLT TIH W/BIT KELLY UP AT 16400' TO REAM LOST RETURNS	AS PER ENGR ON LOC
12/27/99	SPTTED 25#/BBL LCM SWEEP IN OPEN HOLE PULLED BACK TO SHOE BUILT VOL GOT RETURNS BACK REAMED TO BTM SWEEP HOLE 2 TIMES WHILE REAMING 150+ VIS CIRC BTMS UP, SHORT TRIP D T #'S 84576, 77, 78, 79, 80 AND 80031482	AS PER ENGR ON LOC
12/28/99	THINNED MUD TOOH F 3 5" LINER	AS PER ENGR ON LOC
12/28/99	RAN 3 5" LINER TOOH F/PACKER TEST 7 625 LINER TOP TO 2250# RUN 9 625 PACKER TO INSPECT CSG F/WEAR	AS PER ENGR ON LOC
12/29/99	SET 9 625 STORM PKR NIPPLE DOWN BOP VISUAL INSPECT 9 625 CSG NO PROBLEMS NIPPLE UP, PRESSURE TEST BOP FAIL NIPPLE DWN CSG SEAL BROKE AT SLIPS W O O	AS PER ENGR ON LOC
12/30/99	NIPPLE UP TEST BOP TIE INTO AND RELEASE STORM PACKER CIRC BTMS UP TOOH	AS PER ENGR ON LOC
12/31/99	TIH SET PKR AT 10280' CIRC BTMS UP TOOH NIPPLE DWN RIG UP CSG JACKS	AS PER ENGR ON LOC
1/1/00	RIG UP CSG JACKS SPEAR CSG BACK OFF 19 JTS LAY DOWN 864' TIH 930' CIRC W/FRESH WATER RUN NEW CSG	AS PER ENGR ON LOC
1/2/00	RUN NEW CSG LAND IN CSG SLIPS TEST TO 1500# NIPPLE UP BOP	AS PER ENGR ON LOC
1/3/00	TEST BOP TIH 10200 TO PACKER CIRC BTMS UP RELEASE PACKER	AS PER ENGR ON LOC

1/4/00	POOH TO 7000' TEST CASING TO 6000 PSI TOW PICK UP CASING BRUSH TIH CIRC 3 HOURS TOW FOR PRODUCTION PACKER	AS PER ENGR ON LOC
1/5/00	PICK UP PACKER AND TRIP IN, DROP BALL ND ATTEMPT TO SET PACKER, PACKER WILL NOT SET	AS PER ENGR ON LOC
1/6/00	RIG REPAIR, BREAKS SET PACKER AND TEST TO 2000 PSI CIRCULATE, MIX SLUG AND TRIP OUT LAY DOWN PACKER SETTING TOOL, PICK UP CASING SCR APER AND BIT A ND TRIP IN HOLE CIRCULATE AND CONDITION	AS PER ENGR ON LOC